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BEEF RECORD BOOK



146-84

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4-H MOTTO

Learn to do by doing.

4-H PLEDGE

I pledge
My HEAD to clearer thinking,
My HEART to greater loyalty,
My HANDS to larger service,
My HEALTH to better living,
For my club, my community and my country

4-H GRACE

(Tune of Auld Lang Syne)

We thank thee, Lord, for blessings great
On this, our own fair land.
Teach us to serve thee joyfully,
With head, heart, health and hand.

If any portion of this manual is used for another publication, credit must be given to 4-H Branch Alberta Agriculture.



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EVALUATION

The records are marked each month and at the end of the project year. Below is a break-down of how your record book will be marked.

Member Information	10
Animal(s) Information	30
Description of Animal(s)	15
Inventory	10
Monthly Records	100
Receipts	20
Costs (expenses)	20
Financial Summary	30
Project Performance Record	40
Health Record	40
Show Record	15
Achievements	10
Project Picture Pages (beginning & end)	10
Activity Picture Page	5
Summary Story	20
Neatness	15
Promptness	10
Total Possible Marks	400

Supplemental Records for Heifer, Cow/Calf & Pen Projects

Heifer and Cow/Calf Projects

Pedigree	5
Estrus Record	15
Breeding Record	15
Additional Possible Marks for Heifer Project	35

<u>Cow/Calf Project</u>	(from above records)	35
Calving		15
Feeding		10
Calf Record		10
Calf Weight Record		20
Calf Feeding		10
Additional Possible Marks for Cow/Calf Project		100

Pen Project

Management & Economics of Raising Cattle	50
Additional Possible Marks for Pen Project	50

Summary of Evaluation

Below is a further explanation of how the total marks are added up for your record book.

1. Single steer project - 400 marks
2. Single heifer project - 435 marks
3. Cow/Calf project - 500 marks
4. Pen project - 450 marks

MEMBER INFORMATION

Date _____

Name _____

Address _____

Club _____

Age _____

Number of years in 4-H _____

Unit (I, II, III or IV) _____

What do you hope to learn about raising beef cattle?

PROJECT INFORMATION

Date Purchased _____

Breed(s) _____

Who and Where did you get your animal(s) from?

1. Why did you choose the animal(s) you did?

2. What condition was your animal(s) in when you first got it? (health)

PROJECT PICTURE PAGE

Photographs of your animal(s) at beginning of the project year. Include more pages if needed. (Date and Label).

INTRODUCTION TO RECORD KEEPING:

Record keeping is an important part of 4-H club work. Keeping up to date, accurate records is all part of good management. By keeping records on your project you will learn:

- 1) How much money you make or lose
- 2) How much it costs to raise a beef animal
- 3) To use records to make plans for future projects
- 4) To do calculations to determine the efficiency of your beef project.

HELPFUL HINTS IN RECORD KEEPING

1. Keep all receipts. When you buy anything for your project (example: feed, halters, brushes, show supplies, veterinary supplies), keep all the receipts and write purchases on the back. When it comes time to record all expenses, you will just have to look at the receipts.
2. Record feed changes. Nail the attached piece of cardboard on the wall beside the feed bin. When you change the amount or kind of feed given to your animal, write it down. Include the date and the changes made. This will help you when it is time to do the monthly records.
3. Monthly records. Fill out the records each month. If you let the records get behind, it is hard to catch up and remember what you did with your project.
4. Do your calculations on rough paper before writing on the monthly record sheets in this book. You will be marked for neatness as well as accuracy.
5. When you get your monthly records back from the marker, keep them in order and together in a binder. You will need all the information at the end of the year when it is time to do the final records.
6. Ask questions!! If something is not clear to you, ask your leader.

TERMS USED IN RECORD KEEPING

1. Income - Money received. When you sell your animal, the money you get for it is income.
2. Expenses - Cost of items or services; money spent. When you buy your animal, it is an expense. You have had to pay out money.

$$\text{Income} - \text{Expenses} = \text{Profit}$$

3. Profit - The money you have after all the expenses are paid.
4. Loss - If your expenses are more than your income, you have lost money.
5. Inventory - List of all the equipment, feed, animals and products you have.
6. Opening Inventory - list of all the above items at the beginning of the year when your project starts.
7. Closing Inventory - list of all the above items that you have left at the end of the year.
8. Depreciation - Decrease in value. For example the value of a halter after a year's wear would be less than at the beginning of the year. You would not pay as much for it after a year as you would if it was new (from \$10.00 to \$8.00)
9. Net - The amount of money you have after all deductions have been made. For example - the sale of an animal brought \$800.00.
Deductions were: Shrinkage - \$30
Selling charges - \$15
\$45
Net Price \$800.00 - \$45.00 = \$755.00
10. Gross - The amount of money you have before deductions. In the above example \$800.00 would be the gross price.

INVENTORY

BEGINNING

CLOSING (ENDING)

A.	Price paid or value of project animal(s)	\$ _____	Value of project animal(s)	\$ _____
		_____	(sale price, or estimate value if not sold)	_____
		_____		_____
		_____		_____
	Sub Total (A)	\$ _____	Sub Total (A)	\$ _____

B.	Value of equipment at beginning of year (** see below note)	Value of equipment at year end
	<u>Item</u>	<u>Cost or value</u>
	<u>Item</u>	<u>Value</u>
ex.	halter (nylon)	\$ 9.50
	halter	\$ 7.00
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	Sub Total (B)	\$ _____
	Sub Total (B)	\$ _____

Total Beginning Inventory (A + B)	\$ _____	Total Closing Inventory (A + B)	\$ _____
---	----------	---------------------------------------	----------

** equipment should include such items as shovels, pitchfork, brooms, brushes, grooming and showing supplies, halters, etc.

DESCRIPTION OF ANIMAL(S)

BEGINNING OF PROJECT

Breed	Sex	Birth	Identification tattoo, ear tag	Date Bought	Weight	Price/ Unit	Total Cost
Angus-Charolais Cross	Steer	March 14	Eartag - P50	Nov. 1	500	70¢	\$350

END OF PROJECT

Date Sold	Weight	Price/ Unit	Net Selling Price	Total Days on Feed	Units Gained
Aug 20/83	1150	97¢	\$1115.50	290 days	650 lbs 295.45 kg (650 - 2.2 = kg)

SOLD TO: _____

Make a point of writing the buyer a thank-you note in appreciation for purchasing your animal.

NOTES FOR REFERENCE

Do you wish you could remember important and helpful information you have learned from films, guest speakers, your leader?

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery. There is no handwriting or other markings on the page.

EVENT CALENDAR

During club meetings, use this calendar to mark down dates to remember.
For example: During the January meeting the club set the date for the Club Field Day. See month of March for example.

MONTH	DATE	EVENT	TIME & PLACE
<u>October</u>			
<u>November</u>			
<u>December</u>			
<u>January</u>			
<u>February</u>			
<u>March</u>	15th	Club Field Day	leader's place 9:00 a.m.

EVENT CALENDAR

MONTH

DATE

EVENT

TIME & PLACE

April

May

June

July

August

September

FEED RECORD

Tack this Feed Record up in the barn beside the feed bins. Attach a pencil and write down changes in your animal's ration. This will be helpful when you do the monthly reports in your record book.

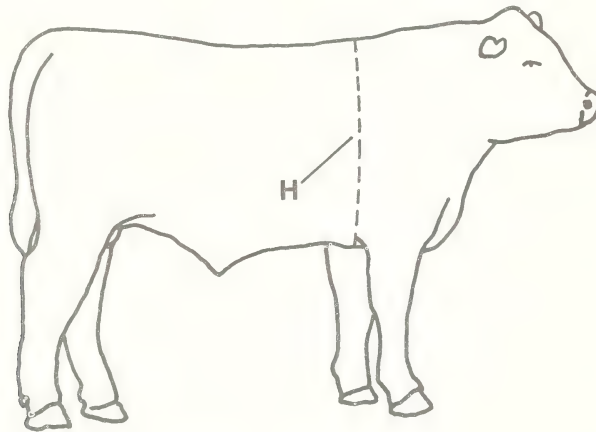
[illegible]

WEIGHING

It may not be possible to weigh your animal(s) using a scale. If possible, a scale is the best way to get the exact weight on your animal(s). If you do not have scales on the farm, but know someone in the area that does, ask to borrow them. Trucking is good practise for your project and you can get an exact weight.

TAPE MEASURING

Using a tape measure is another method to estimate weight. Measuring tapes can be bought at most livestock supply outlets. Remember that it only gives you an approximation of the animal's weight.



"H" is the heart girth

HOW TO MEASURE:

1. Stand the animal with the head in the normal position and with the legs set squarely under the body.
2. Pass the tape snugly around the animal just behind the foreleg and just back of the shoulders.
3. It is recommended that the animal be kept off feed and water for 12 hours before measuring. An overnight shrink is enough.

METRIC CONVERSION FACTORS:

	1 inch	= 2.54 centimetres (cm)
ie.	65 inches	= $65 \times 2.54 = 165.1$ cm
	2.2 pounds	= 1 kilogram (kg)
ie.	802 pounds	= $802 \div 2.2 = 364.55$ kg

MONTHLY RECORD

This copy is to be kept in your record book. Fill it out monthly. It may be used as a rough copy of the pages you will hand in to your project leader.

Name _____ Name of Club _____

Month _____ Number of Days _____

FEED RECORD

KIND	AMOUNT		PRICE PER UNIT (per bale, per lb or kg)	TOTAL COST
	PER DAY	PER MONTH		
<u>Grain</u>				
<u>Roughage</u>				
<u>Supplement</u>				
<u>Pasture</u>				
<u>Other</u>				

TOTAL AMOUNT PER MONTH _____ units

FEED COSTS \$ _____

TOTAL AMOUNT

PER MONTH _____ units

OTHER COSTS (VETERINARY, TRUCKING, BEDDING, EQUIPMENT, ETC.)

DATE	EXPLANATION	COST

MONTHLY RECORD continued

WEIGHT RECORD:

1. Weight at start of month _____
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Add up the number of days in the month.
Divide this into the amount of gain
(#3).

example - 30 days in the month
 - gain in weight = 22 kg
Gain per day = $22 \text{ kg} \div 30 = .73 \text{ kg/day}$

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RECORD OF YOUR PART IN ACTIVITIES

Club Meeting Attended _____ Yes or _____ No

Your responsibilities _____

Marker's Comments _____

Date Signature of Marker Mark

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FEED COSTS \$ _____

TOTAL AMOUNT
PER MONTH _____ units

OTHER COSTS (VETERINARY, TRUCKING, BEDDING, EQUIPMENT, ETC.)

DATE	EXPLANATION	COST

MONTHLY RECORD

Fill out this page using the Monthly Record you kept in the barn.
This will be marked by your club leader.

Name _____

Name of Club _____

Month _____

Number of Days _____

FEED RECORD

KIND	AMOUNT		PRICE PER UNIT (per bale, per lb or kg)	TOTAL COST
	PER DAY	PER MONTH		
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Marker's Comments _____

Date

Signature of Marker

Mark

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TOTAL AMOUNT PER MONTH _____ units
FEED COSTS \$ _____

TOTAL AMOUNT
PER MONTH _____ units

OTHER COSTS (VETERINARY, TRUCKING, BEDDING, EQUIPMENT, ETC.)

DATE	EXPLANATION	COST

TOTAL OTHER COSTS \$ _____

MONTHLY RECORD continued

WEIGHT RECORD:

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PER MONTH _____ units

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MONTHLY RECORD

Fill out this page using the Monthly Record you kept. This copy will be taken out of your Record Book, handed in and marked by your club leader.

Name _____

Name of Club _____

Month _____

Number of Days _____

FEED RECORD

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<u>Supplement</u>				
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<u>Other</u>				

TOTAL AMOUNT PER MONTH _____ units
FEED COSTS \$ _____

TOTAL AMOUNT
PER MONTH _____ units

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	PER DAY	PER MONTH		
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Your responsibilities _____

Marker's Comments _____

Date Signature of Marker Mark

RECEIPTS:

This is the money you have received with your animal(s) during the year.

A. Sale Price or Net Sale Value of animal
at end of project year (without deductions) \$ _____

B. Prize Money \$ _____

C. Other

<u>Explain</u>	<u>Amount Received</u>
----------------	------------------------

_____	\$ _____
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Total Other Monies Received	\$ _____
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D. Total Receipts
(A + B + C = D) \$ _____

COST (EXPENSE) RECORD

This page is for listing of all your expenses during the project year. The total (E) will tell you how much it cost to raise your animal(s).

To get the information, add the totals from the monthly records.

A. Purchase Price or Value of Animal(s) \$ _____

B. Feed Costs

	<u>Amount</u>	<u>Cost</u>
Grain	_____	_____
Supplement	_____	_____
Roughage	_____	_____
Pasture	_____	_____
Other	_____	_____

Total Feed Costs \$ _____

C. Other Costs (veterinary, interest, club calf death insurance, trucking, bedding, equipment, etc.)

<u>Explain</u>	<u>Cost</u>
_____	\$ _____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Total Other Costs \$ _____

D. Interest on Money Borrowed

Amount Borrowed Interest Rate (%)

Total Interest Costs \$ _____

E. Total Costs for Year \$ _____
(Add totals A + B + C + D = E)

FINANCIAL SUMMARY

A. INCOME (receipts)

Net sale value \$ _____

Prize Money \$ _____

Other \$ _____

Total Income (receipts) \$ _____

B. EXPENSES (from Cost Record)

Purchase value of animal(s) \$ _____

Total Feed Costs \$ _____

Total Other Costs \$ _____

Interest Costs \$ _____

Total Expenses (from Total Costs) \$ _____

Net Profit (A - B) \$ _____

OR

Net Loss (B - A) \$ _____

BREAKEVEN PRICE

Total Expenses

Sale scale weight - shrinkage = _____ = \$ _____/unit weight

(Compare the breakeven price to the price per unit you got when you sold your project. The difference between the two figures will tell you how much profit or loss per unit of weight gain you made.)

PROJECT PERFORMANCE RECORD

NOTE: This page is not as confusing as it may look at first glance. Just read it carefully and follow the directions. For example, in question 3 it says "total weight gain (1)", the "(1)" tells you that you must look at the answer you got for question one. Just put this answer in beside the "(1)" in question three.

1. Sale Scale Weight _____ minus beginning weight _____ = _____ total
or end of - (when you got weight
project year your project) gain
weight

2. Days on feed (from _____ 19__ to _____ 19__) = _____ days

3. Average daily gain = $\frac{\text{Total weight gain (1)}}{\text{Total days (2)}}$ = _____ = _____/day
(units)

4. Feed to put on 1 lb or 1 kg gain
(Add up total feed units from monthly records)

$\frac{\text{Total units of feed}}{\text{Total weight gain (1)}}$ = _____ = _____ units of feed
to gain, 1 unit
of weight

5. Feed cost per unit of gain
(From cost [expense] Record)

$\frac{\text{Total feed cost}}{\text{Weight Gain (1)}}$ = _____ = \$ _____ to gain 1
unit of
weight

6. The above 1-5 tells you how much feed was used and how much it cost you to feed your project for 1 lb or 1 kg of weight gain. This does not include your other expenses. Production costs include all of the costs to raise your project.

$\frac{\text{Total expenses - Purchase price or value}}{\text{Total gain in weight (\#1)}}$ = _____ = \$ _____ /unit
gain

HEALTH RECORD

Date	Animal Treated	Description of Illness or problem (signs, animal behavior)	Treatment	Response to Treatment (what changes in the animal were there, if any, after treatment)	Treated by whom (yourself, the vet, etc.)

Include on this record chart: 1. Routine practises for prevention of sickness and injuries
2. Treatments of sickness or injuries

For example: dehorning, castration, vaccinations, vitamin and mineral injections, control of parasites, etc.

SHOW RECORD

Show Date	Show Attended	Animal(s) shown (ie. steer, heifer, cow & calf, pen)	Class (ie. carcass, steer, weight, breeding, female, [age], showmanship)	Placings	Judge

ACHIEVEMENTS

List personal achievements and honours earned in 4-H club work during the year (Camps, Club Week, Public Speaking, Demonstrations, Judging Contests, Field days, Selections, etc.).

PROJECT PICTURE PAGE

Photographs of your animal(s) at the end of the project year.
Include more pages if needed.

(Date and label)

ACTIVITY PICTURE PAGE

Include photos, clippings, notes on club activities (Rallies, tours, trips, achievement day, shows, public speaking, other events). Include more pages if needed.

(Date and label)

PEDIGREE

Name of Animal _____

Registration Number _____

Date of Birth _____ Breed _____

Tattoo Number _____

Sire _____ Reg. # _____

Sire _____ Reg. # _____

Dam _____ Reg. # _____

Sire _____ Reg. # _____

Dam _____ Reg. # _____

Dam _____ Reg. # _____

ESTRUS (HEAT) RECORD

Record estrus (heat) cycles on this page. This will help you to calculate when your animal's next estrus will occur. By keeping record of estrus cycles, you will know when to watch for signs and breeding is likely to be more successful.

Date

Remarks

BREEDING RECORD

Date

Sire

Remarks

Indicate method of Breeding (A.I. or Natural)

CALVING

Describe any calving difficulties and how you handled the situation.

FEEDING

Describe how you provided your animal with additional nutrients before and after calving. Include when the ration changes were made and your reasons for doing so.

CALF RECORD

Birth Date _____ Birth Weight _____

Sex _____ Weaning Weight _____

Breed _____ Weaning Date _____

Identification Number _____

WEIGHT RECORD - Record weight each month starting from birth.

<u>Month</u>	<u>Weight</u>	<u>Gain</u>	<u>Gain Per Day</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Note: Enter all health related and handling practises in health record.
(castrating, tattooing, eartagging, vaccinations, etc.)

Feeding

Date first put onto feed _____

Describe how you introduced the calf to feed and the ration being fed.

PEN PROJECT

Indicate the differences you have encountered in raising a pen of beef animals compared to one animal.

Feeding	_____	Health care	_____
	_____		_____
	_____		_____
	_____		_____
	_____	Labour	_____
Facilities	_____		_____
	_____		_____
	_____		_____
	_____		_____
Equipment	_____		_____
	_____		_____
	_____		_____
	_____		_____

Financial (financial arrangements, overall expenses)

Marketing _____

N.L.C. - B.N.C.



3 3286 05545683 0

Alberta
AGRICULTURE
4-H BRANCH